DEPARTMENT OF HORSE-BREEDING OPERATIONS.

ANNUAL ADMINISTRATION REPORT

OF THE

BOMBAY PRESIDENCY

FOR THE

OFFICIAL YEAR 1885-86.

JJ. K-14

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To

THE SECRETARY TO GOVERNMENT,
REVENUE DEPARTMENT,
Bombay.

Superintendent's Office,
Horse-breeding Operations,
Poona, 19th June 1886.

SIR,

I have the honor to submit, for the consideration of His Excellency the Governor in Council, the Annual Administration Report of the Department of Horse-breeding Operations in the Bombay Presidency for the official year 1885-86.

The delay in submitting this is owing to the Returns not having been received in time.

I have the honor to be,
Sir,
Your most obedient Servant,
J. K. GRAINGER,
Officiating Superintendent,
Horse-breeding Operations,
Bombay Presidency.

GOVERNMENT OF BOMBAY.

DEPARTMENT OF HORSE-BREEDING OPERATIONS.

ANNUAL ADMINISTRATION REPORT FOR THE OFFICIAL YEAR 1885-86.

As usual I will divide this report into two parts:

Firstly,—My tours of inspection.

Secondly,—The statistical returns.

Hardwar Fair, 6th to 11th April 1885.

2. I visited this fair for the purpose of making myself acquainted with the way in which the exhibitions are managed and the stamp of horses produced in the North-Western Provinces and Punjáb. The Shows are conducted on much the same principles as the Shows in this Presidency. The produce of the Norfolk Trotter stallions took the principal prizes in the classes for young stock, and several very nice colts and fillies were exhibited at Hardwar and Amritsar.

3. From Hardwar I returned to Poona for office work and remained there till the 4th of August when I went on two months' leave. During this time I arranged all the dates of the Horse Shows and sent in my annual report. I rejoined on the 6th of October.

Rájkot Horse Show.

4. On the 13th of October I proceeded to Rájkot to attend the Horse Show there and remained there up to 25th. Here I inspected the stallions noted in the margin and found them in good condition. I also inspected State stallions, and have given my remarks on them, *vide* Government Resolution No. 1237 in the Revenue Department, dated 15th February 1886. During the Show I inspected 18 mares, branded 8, and rejected 10.

Sepoy ...	...N.T.E.
Marmion ...	... Arab.
Khaldar ...	... Do.
Lachin ...	... Do.
Grumbler ...	... Do.

5. On my way to Rájkot I went to Bhávnagar and inspected the Paddock, and, on my way back to Poona, I inspected the Government stallions at Kaira and found "Pearl" old and useless and recommended him to be destroyed.

Ahmednagar Horse Show, 17th and 18th November 1885.

6. I proceeded here on 16th to attend the Horse Show.

7. While here I inspected the stallions noted in the margin and found them in good health. During the Show I branded 24 mares for horse, 21 for pony, and 22 rejected.

Lucifer	...N.T.E.	Royal Visit	...Arab.	Sirdar	... Arab.
Sir Robert	... Do.	Deshmuk	... Do.	Kirkee	... Do.
Allan Bane	...T.B.E.	Dandy	... Do.	Bahadur	... Do.

Sholápur District.

Kurduwádi, 20th November 1885.

8. I arrived here on 20th November and branded 13 mares, rejecting 3. The mares branded were a fine lot.

Pandharpur, 22nd and 23rd November 1885.

9. On the 21st of November I proceeded to Pandharpur and branded 9 mares, rejecting 3. As there was a fair going on I expected to have a lot of mares brought for my inspection, but I was disappointed. The country is poor and not in my opinion a good one for horse-breeding. It seems to me that mule-breeding would be a more profitable industry.

Sángola, 24th November 1885.

10. Thence I proceeded to Sángola and branded 17 mares, rejecting 4.

25th and 27th November 1885.

11. From Sángola I went to Nazra and Jawla, returning each day to Sángola. At Nazra and Jawla I branded 29 and 34 mares respectively. I inspected the stallions' stable at Sángola. One pony stallion will be located if stabling can be provided. I have much pleasure in recording that the Mámlatdár and Fauzdár of this place gave me every assistance.

Mohod, 28th November 1885.

12. I arrived here on the 28th. 57 mares were brought forward out of which I branded 31.

Velápur, 29th November 1885.

13. On the 29th of November I proceeded to Velápur, but very few mares were brought for my inspection, and I only branded 4 mares. The mares were a poor lot.

Aklúj, 1st December 1885.

14. On the 1st December I arrived at Aklúj, and branded 1 mare.

Málsiras, 2nd December.

15. On December 3rd I proceeded to Málsiras. Inspected 16 mares and branded 12.

Nátaputa, 4th December.

16. From Málsiras I proceeded to Nátaputa. Here I inspected 18 mares and branded 13.

Sholápur, 8th December.

17. Thence I proceeded to Sholápur *viâ* Diksál. I branded 20 mares here and rejected 15. The mares were a good lot.

18. Here I finished my tour in the Sholápur District, and I came to the conclusion that a horse stallion must be placed at Sángola, and accordingly I transferred the pony stallion "Grey Dawn" from Sángola to Sholápur and replaced him by a horse stallion from Sholápur. I do not consider the Sholápur country well suited for horse-breeding. If the owners of the small pony mares could be advised to try mule-breeding this would soon prove a far more valuable industry.

Bijápur, 10th December.

19. On the 10th I arrived here, but I am sorry to state that no mares were collected for my inspection though timely notice of my coming there was given.

Dhárwár District.

Mallápur, 1st December.

20. I proceeded here on the 12th. 21 mares were collected for my inspection, out of which I branded 14 and rejected 8. The Fauzdár of this place did his best to collect mares.

Gadag, 13th December.

21. From Mallápur I proceeded by rail to Gadag. 42 mares were brought forward of which I branded 22 and rejected 20.

Annigeri, 14th December.

22. Only 16 mares were collected here for my inspection, out of which 13 were branded and 3 rejected.

Hubli, 15th December.

23. At Hubli on the 15th of December 71 mares were presented for my inspection and 38 were branded, rejecting 35. The mares rejected were a poor lot.

Dhárwár, 16th December.

24. I came here on the 16th and branded 20 mares, rejecting 17.

25. This brought my tour in Dhárwár District to a conclusion. I hope to make a thorough tour in this district next year. The country seems to be well suited for pony and mule-breeding and several pony stallions have already been sent there.

26. I then returned to Poona for office work and remained there till the 30th of December.

Province of Cutch.

Mándvi, 3rd January 1886.

27. I arrived at Mándvi in Cutch on the 3rd January, and branded 12 mares. The mares were poor.

Mothála, 6th January 1886.

28. On the 6th I went to Mothála. The country from Mándvi to Mothála is mostly rough and hilly. Here I branded 27 mares, rejecting 20.

Mangwána, 9th January.

29. On my way to Bhúj I branded 4 mares at Mangwána on the 9th.

Bhúj, 12th January.

30. At Bhúj on the 12th I branded 7 mares and rejected 6. The mares were a good lot. Here I inspected the stallions noted in the margin and I found them in good health and condition. I can see from the returns that the donkey stallion is doing nothing there. I propose to transfer him to Sind if his services are not availed of.

Gaekwar—N. T. E.
Dispatch— Do.
Torna—Arab
Lord Napier—Arab
Bahirwatia—Arab.
Donkey Stallion } Italian.
Kamarputa. }

31. I had great pleasure in visiting the Changalrai Paddock and the excellent arrangement and improvement that have been made for horse-breeding. His Highness the Ráo and Colonel Goodfellow take the greatest interest in the Paddock and in horse-breeding generally.

Buchow, 14th January.

32. On the 14th I proceeded to Buchow, about 48 miles east of Bhuj. Here 98 mares were branded and I rejected 50. I recommend that two stallions, one Norfolk Trotter and one Arab, be placed there. This part of the country seems to be very fertile and well suited for horse-breeding.

Rudra Máta, 16th to 21st January.

33. From Buchow I went to Rudra Máta where a Horse Show was to be held. The Show, considering it to be the second held in Cutch, was a success. I am of opinion that if the Show were to be held at or near Bhúj it would become more successful. Altogether I think the prospects of horse-breeding operations in Cutch are most promising. The thanks are due to the Stud Superintendent, Mr. Ludha, for his excellent arrangements at the Paddock. I inspected several 3 and 4-year-olds which His Highness the Ráo was anxious to offer for sale as remounts to Government; and I was informed by His Highness that he wished Government to have the first chance of the stock he had for sale.

Shikárpur, 1st to 5th February 1886.

34. I arrived at Shirkárpur on the 3rd of January and assisted at the Horse Show. During the Show I inspected 122 mares for branding, branded 52 for horse and 20 for donkey stallion, rejecting 50. I inspected the stallions noted in the margin and found them in excellent health and condition. Mr. Hallen, the General Superintendent, Horse-breeding Operations in India, also attended the Show, and he in consultation with me transferred 6 donkey stallions from the Punjáb to Sind. Thanks are due to the very excellent management made by Major Mayhew and to the other officials who acted as judges and members of the Committee.

Planet—N. T. E.
Rangoon—Arab.
Khabutar— Do.
Donkey Stallions.
Shikárdár—Italian.
Changi-Khorásán.
John—Arab.
Moti— Do.
Muley—Spanish.

35. On the 6th I visited Jacobabad, inspected the stallions noted in the margin and found them in excellent health and condition. The stallion Bluelight is much liked by the Beluchis: also the Norfolk Trotter stallions Cupid and Contract. These stallions are not sufficient for the work they are required to do, and I intend to send two more next cold season. Two additional donkey stallions are required, one for Kashmor and the other for Shahdádpur, 78 and 50 miles respectively

Cupid—N.T.E.
Contract—Do.
Bluelight—Australian.
Nicholas—Arab.
Sir Frank—Arab.
Donkey Stallions.
Jack—Persian.
Socrates—Do.

away from Jacobabad. Here I inspected 37 mares and branded 7, rejecting 30. Almost all the mares from this district having come to Shikárpur Horse Show, the number assembled here was poor.

Rádhan, 9th February.

36. On the 9th of February I started for Rádhan and inspected 166 mares. 56 out of this number were branded for horse, 90 for donkey stallion, and rejected 20. The mares were generally a good lot.

Lárkhána, 11th February.

37. From Rádhan I proceeded to Lárkhána and inspected 121 mares, branded 48 for horse and 53 for donkey stallion, rejecting 20.

Sibi, 14th to 17th February.

38. I arrived here on the 14th to attend the Horse Show. Rái Bahádur Hethurám, Native Assistant to the Agent Governor General in Beluchistán, took great pains in explaining to the owners of mares the meaning of the brand and inducing them to receive it. Here I inspected 99 mares and branded 74, rejecting 25.

Ghotki, 20th February.

39. In consultation with the Collector of Shikárpur I went to Ghotki on the 20th. Here I inspected 187 mares, branded 30 for horse and 2 for donkey. It was not imperative for mares to be branded to have the services of the donkey stallion; but by branding an approximate estimate is arrived at of the number of donkey stallions required.

Ahmedabad District.

Ahmedabad, 7th to 13th Mar.

40. From Ghotki I went to Ahmedabad to attend the Horse Show. The Show was well attended. During the Show I inspected 109 mares for branding and branded 12 for horse and 57 for pony.

41. A tour having been drawn up by the Collector and the District Superintendent of Police, I began the tour on the 13th and visited all the places laid down by them.

Viramgám, 14th March.

42. On the 14th of March at Viramgám I inspected 15 mares, branded 2 for horse and 3 for pony, rejecting 10. The Mámledár of this place told me that there were no mares to be had at Punnar and he would collect the mares of Detroj at Nathpura. I accordingly arranged to go to Nathpura direct.

Nathpura, 17th March.

43. I arrived here on the 17th. Only 24 mares were brought for my inspection and I branded 3 for horse and 12 for pony and rejected 9.

Banti, 18th March.

44. I arrived here on the 18th and inspected 37 mares, branded 8 for horse, 14 for pony, and rejected 15. From Banti I proceeded to Katosan and visited the Darbár there and had a long conversation with him on horse-breeding. The Darbár presented 2 mares for branding; both I branded for horse. No other mares were brought forward.

Vithalapur, 19th March.

45. On the 19th I proceeded to Vithalapur. Here I inspected 72 mares, branded 9 for horse, 38 for pony, and rejected 25. The mares were a fine lot.

Mándal, 19th and 20th.

46. At Mándal on the 19th I inspected 32 mares, branded 2 for horse, 19 for pony, and rejected 11.

Pátri, 21st March.

47. On the 21st I visited the Pátri Darbár. The Darbár did not produce any mares for branding. Here I branded 3 mares, 1 for horse and 2 for pony.

Vithalgad, 23rd March.

48. I proceeded to Vithalgad on the 23rd. Inspected 5, branded 4 for pony, and rejected 1.

Jaitápur, 24th March.

49. At Jaitápur on the 24th I inspected 6 mares, branded 1 for horse, 2 for pony, and rejected 3.

Deodholera, 25th March.

50. Thence I proceeded to Deodholera and inspected 4 mares, branded 1 for pony, rejecting 3.

Gangad, 26th March.

51. At Gangad I inspected 4 mares, branded 1 for horse, 1 for pony, and rejected 2.

Lála, 27th March.

52. On the 27th I went to Lála, inspected 3 mares and branded one for horse.

Dhandhuka, 28th March.

53. On the 28th I proceeded to Dhandhuka, but I was disappointed and did not get a single mare for my inspection, though the Mámledár had tried his best to collect them.

Dholera, 29th March.

54. I then proceeded to Dholera and inspected 7 mares, branded 4 for pony, and rejected 3.

Pipli, 30th March.

55. At Pipli on the 30th I did not get any mares for inspection.

56. This brought my tour for 1885-86 to a conclusion.

57. I visited a few more places in the Ahmedabad District, but these will appear in my next annual report. Altogether I do not consider the number of mares brought forward during my tour in the Ahmedabad District at all satisfactory. In all I visited three tálukas of the Ahmedabad District, *viz.* Viramgám, Dholka, and Dhandhuka, travelling about 183 miles, and I may state that it is hardly worth while my making another tour in this district for the next two years.

STATISTICAL REPORT.

Stallions—Number of

58. At the close of the last year the number of stallions was as follows:

Thorough-bred English	8
Norfolk Trotters...	11
Australian	1
Arabs	55
Total ...	75

Decrease: Casualties.

59. In Appendix I. will be found the number and percentage of casualties. During the year 3 horses died and 3 were destroyed. The causes of death and reasons of destruction will be found in Appendix II. The percentage of death was 3·37 compared to 6·6 in 1884-85, and the average of stallions destroyed was 3·37 per cent. The general average of horses died and destroyed was 6·74 per cent. against 14·6 last year. From this it will be observed that only 3 deaths and 3 destructions occurred during the year under report. This shows a very low rate of mortality (6·74 per cent.)

60. The health of the stallions was generally good. The three stallions that died at Jacobabad were out of the reach of veterinary aid and the climate is very trying in the hot months.

Sales.

61. Three stallions were sold during the year as shown in Appendix III. as they were no longer fit for Government stud purposes.

Increase during the year.

62. The following stallions have been received during the year:

From England.

Thorough-bred English	2
Norfolk Trotters	2

By transfer from the Punjáb and North-Western Provinces.

Through bred English	1
Norfolk Trotters	1
Arabs	2
Total ...	23

63. The four stallions received from England were sent to Ahmednagar Depôt for acclimatization and the four stallions received by transfer from the North-Western Provinces and Punjáb were sent to Beluchistán. The 15 Arabs were distributed as follows :

By Purchase.

Deccan	... 9
Gujarát	... 5
Sind	... 1
Total	... 15

64. I have not seen the stallions received by transfer from the North-Western Provinces as they arrived after my departure from Sibi. The two thorough-bred English and the two Norfolk Trotters are remarkably fine horses, and the Arabs are of good blood and substance.

Number of Stallions present.

65. At the close of the year under report the following stallions were present:

Thorough-bred English	... 11
Half-bred English including Norfolk Trotters	... 13
Australian	... 1
Arabs	... 64
	89

Classification.

66. In Appendix IV. the classification and distribution of the stallions will be found. They have been classed thus :

Classification.

Very good	... 45
Good	... 29
Fair	... 11
Not seen	... 4
Total	... 89

The animals classed as not seen arrived after my departure from Sibi.

Distribution.

67. The distribution of stallions during the last 8 years has been as follows :

	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.
Deccan	27	41	40	45	47	41	37	45
Gujarát and Káthiáwár ...	17	22	20	24	20	18	18	19
Sind and Cutch	12	12	9	9	13	16	17	17
Beluchistán	..	...	...	...	...	4	3	8
Total ...	56	75	69	78	80	79	75	89

Demand for Stallions.

68. It will be observed that horse-breeding continues developing in Cutch, Sind, and Beluchistán. In Gujarát and Káthiáwár the industry remains steady. In the Deccan the pony stallions are urgently required and Government had sanctioned Rs. 12,000 as a special assignment for it, but I was unable to purchase them during the year as I was touring in Gujarát and elsewhere. The sanction is now renewed and I have bought several more ponies.

69. The strength of stallions as shown above in paragraph 65 was 89, of which 85 were employed at stud work during the year; the remainder were in depôt for acclimatization.

Strength of Stallions.

70. I expect to receive next year four thorough-bred English stallions, about 15-2 in height, of good bone and substance, from England. I will purchase several pony stallions locally.

Stallions—Further supply of

71. The total cost per annum of feeding, attendants &c. of the stallions is shown in Appendix V.

Cost of Keep, &c.

72. The general average per stallion during the last eight years has been follows:

	Rs.	a.	p.
1878-79	442	9	0
1879-80	358	5	0
1880-81	301	1	0
1881-82	272	8	7
1882-83	285	9	11
1883-84	319	10	8
1884-85	339	5	3
1885-86	317	6	5

This shows a decrease of Rs. 21-14-10 in the general average over that of the last year.

73. The usual map of horse-breeding operations in this Presidency (Appendix VI) is attached.

Map of Horse-breeding Operations.

74. Appendices VII. and VIII. are indices to the map showing the names and breeds of horse and donkey stallions and the number of branded mares available at each stand.

75. Like last year Ahmednagar continues to be the depôt and the new horses are sent there for acclimatization.

Depôt Stables.

76. At the close of the last year there were 3,018 branded mares as noted in Appendix VIII:

Branded Mares—Number of.

Deccan	776
Gujarát and Káthiáwár	1,308
Sind and Cutch...	855
Beluchistán	79
Total ...	3,018

77. During the year 1885-86 the following additional mares have been branded and registered:

Deccan	364
Gujarát and Káthiáwár	310
Sind and Cutch	375
Beluchistán	60
Total ...	1,109

78. The following mares have been struck off the register for the reasons noted:

Died	28
Sold	3
Total ...	31

79. Deducting the above there remains on the registers on the 31st March 1886 the following number of branded mares:

Deccan	1,125
Gujarát and Káthiáwár	1,602
Sind and Cutch	1,230
Beluchistán	139
	4,096

Total number of Mares inspected.

80. Appendix X. gives the number of mares branded and inspected since the commencement of the Department up to 31st March 1886:

Deccan	2,530
Gujarát and Káthiáwár	3,353
Sind and Cutch	2,448
Beluchistán	263
	8,594

Of these 4,619 have been branded and 3,975 rejected.

81. Appendix XI. shows the results of the coverings of 1884-85. These results must be accepted as only approximate as the number of Inspectors is very small and it is impossible to expect district officers to obtain perfectly accurate information.

Mares covered—Number of

82. During the year under report 2,307 mares were covered by Government stallions. This shows an increase of 423 mares over that of the last year. There is also an increase of 2·28 in the number covered per stallion.

83. The percentage of produce foaled to mares covered in 1884-85 during 1885-86 are given below with the corresponding figures of the previous years:

In 1883-84	24·09
„ 1884-85	34·16
„ 1885-86	34·06

84. The number of mares covered by Government stallions during the last eight years has been as follows:

1878-79	1,825
1879-80	1,881
1880-81	2,185
1881-82	2,403
1882-83	2,508
1883-84	1,792
1884-85	1,884
1885-86	2,317

85. The number per stallion was as follows:

1878-79	34·00
1879-80	33·24
1880-81	33·70
1881-82	33·94
1882-83	34·20
1883-84	28·00
1884-85	29·88
1885-86	32·16

Cast Mares sold to *bonâ-fide* breeders.

86. During the year mares from British Artillery and Cavalry have been cast and sold to *bonâ fide* breeders for horse-breeding. These mares were sold by the Military Department. A list of mares sold and the prices realized will be found in Appendix XII. The highest price given was Rs. 70, the lowest Rs. 8-8-0, and the average Rs. 33-1-4.

Remounts—Purchase of.

87. Appendix XIII. gives the number of remounts purchased as follows:

Army Remount Department...	11
Bombay Native Cavalry	1,080
Police, Northern Division	58
„ Southern „	14
„ Central „	6
„ in Sind	97
	1,266

Of these, 371 were mares, 31 geldings, and 864 entire horses.

Castration of Colts.

88. In Appendix XIV. will be found the number of colts castrated by the Government Salutris during the year. Shikárpur has a Local Fund Salutri. The total number of colts castrated this year is 122 against 82 of the last year. This shows an increase of 40. The castration is gradually becoming more general, but it does not expand quickly as the majority of the owners of colts are Hindoos, who are averse to the operation. But I have no doubt that the prejudice against castration will be gradually overcome.

89. The following figures represent the number of colts castrated by these Salutris during the years noted:

1881-82	11
1882-83	71
1883-84	129
1884-85	82
1885-86	122

No deaths resulted from the effects of the operation.

Mule-breeding Operations.

Donkey Stallions—Number of.

90. The number of donkey stallions present on the 31st March 1885 was as follows:

Spanish	1
Bokhára	1
Italian	5
Persian	3
Arabs	3
Total ...	13

Increase during the year.

91. During the year the following stallions have been received:

Khorásán	1
Italian	3
Persian	6
Total ...	10

Decrease during the year.

92. There have been no casualties amongst the donkey stallions during the year.

Number present.

93. The number of donkey stallions present on the 31st March 1886 is as follows:

Spanish	1
Bokhára	1
Italian	8
Persian	9
Arab	3
Khorásán	1
Total ...	23

Classification.

94. Appendix XII gives the classification of these stallions:

Very good	... 6
Good	... 5
Fair	... 3
Not seen	... 9
Total ...	23

The nine reported 'not seen' were transferred from the North-Western Provinces after my tour in the Shikárpur District.

Cost of feed, &c.

95. The cost of maintenance of the donkey stallions is given in Appendix XVI. The general average is Rs. 202-15-6$\frac{5}{8}$, which shows a decrease of Rs. 37-14-3$\frac{3}{8}$ from that of the last year.

Mule stock —number of.

96. Appendix XVII. gives the results from the coverings of 1884-85, which gives the total of 30. This shows an increase of 2 over last year. And here I would point out that certain parts of the Deccan, such as Sholápur and Dhárwár Districts, where the small-sized pony is indigenous, are most admirably adapted for mule-breeding, the mares here being too small to produce horses suitable as remounts, and I consider were local officers to impress on the owners of mares how and what a fair price can be obtained for this useful animal, as well as the cheapness in bringing up and the hardy nature of the young stock—that mule-breeding would become a more paying industry than the breeding of ponies in those parts.

Horse Shows.

97. Appendix XVIII. is a general statement showing the Horse Shows held in the Presidency and Beluchistán. This year the Hyderabad Horse Show was postponed owing to financial retrenchment. The second Cutch Horse Show was held in January and the cost of which was defrayed by His Highness the Ráo of Cutch. As a second show it was a success. I hear that His Highness the Ráo does not wish to submit the report on the Horse Show to Government, and I think this is due to the Horse Show being in its infancy. The expenses of the Shikárpur and Sibi Horse Shows were as usual defrayed by Shikárpur Local Funds and Beluchistán Agency respectively. I attended all these Shows and have given my remarks on them.

98. The amount paid by Government for these Horse Shows is Rs. 6,383; this shows a decrease of Rs. 1,987 over last year. This decrease was caused owing to the reduction in the expenditure. Next year the expenditure under this head must be increased, as I shall no doubt have to provide money for Shikárpur and Sibi Horse Shows. As for Sibi Horse Show I have recommended that Rs. 1,500 should be granted as a special additional grant.

99. Appendix XIX. is a general statement of expenditure incurred during the year under report.

100. The expenses incurred for the Superintendent and his office establishment are Rs. 6,760-1-1. This shows a decrease of Rs. 179-9-11 from last year.

101. The total—Rs. 54,156-2-5—which shows a decrease of Rs. 3,597-7-10 over last year and which is divided as follows:

	Rs.	a.	p.
1 Cost of supervision and establishment	11,263	4	0
2 Purchase and keep of Stallions and Horse Shows, &c....	42,892	14	5
Total Rs. ...	54,156	2	5

Out of the total expenses, Rs. 10,278-8-9 are debited to Local Funds and Rs. 42,915-12-6 to Provincial revenues, and Rs. 830-3-4 are paid by Beluchistán Agency and Rs. 131-9-10 are paid by the Pálanpur Agency. I have not received complete returns from Beluchistán and hence the decrease in the expenditure. These figures are taken from the returns received. The Political Superintendent of Pálanpur did not submit his bills for payment during the

year and informs me that the money was paid from the Local Funds. I have now requested him to submit his bills to the Ahmedabad Treasury, as was ordered in Government Resolution No. 8928 in the Revenue Department, dated 23rd November 1885, and hence Rs. 53,194-5-3 have been spent out of the amount allotted to this department.

102. The following figures represent the amount paid by Government for Horse Shows during the last seven years:

	Rs.	a.	p.
In 1878-79	7,293	10	6
„ 1879-80	7,141	1	0
„ 1880-81	9,184	14	0
„ 1881-82	10,515	11	4
„ 1882-83	11,866	8	0
„ 1883-84	10,666	14	6
„ 1884-85	8,370	0	0

Rs. 8,750 were spent on account of purchase of horses; the average per annum for the last seven years was Rs. 6,233-15-1.

103. This year the expenses under the head of Stallions' keep &c. are Rs. 24,020-15-5 excluding Beluchistán and Pálanpur. Last year the expenditure under this head was Rs. 23,114-11-4. Thus there is an increase of Rs. 906-4-1, which is mainly due to the number of stallions being increased. The following figures represent the expenditure during the last eight years:

					Rs.	a.	p.
In 1878-79	the keep of	$47\frac{6}{17}$	stallions	cost ...	19,674	12	3
„ 1879-80	„	$51\frac{7}{17}$	„	„ ...	18,484	1	3
„ 1880-81	„	$51\frac{5}{6}$	„	„ ...	15,646	2	9
„ 1881-82	„	65·81	„	„ ...	17,755	5	8
„ 1882-83	„	73·32	„	„ ...	19,600	15	6
„ 1883-84	„	72·78	„	„ ...	23,269	2	2
„ 1884-85	„	70·28	„	„ ...	23,114	11	4
„ 1885-86	„	76·06	„	„ ...	24,020	15	5

J. K. GRAINGER,
Officiating Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX I.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

General Abstract of Casualties of Horse Stallions during the official year 1885-86.

Provinces.	Died.			Destroyed.		Grand Total.	Remarks.
	Norfolk Trotter.	Arab.	Total.	Arab.	Total.		
Deccan	...	...	...	1	1	1	
Gujarát and Káthiáwár	...	...	...	2	2	2	
Sind and Cutch	1	2	3	...	...	3	
Total ...	1	2	3	3	3	6	
Average death, 3·37 per cent. ...				Average of Stallions destroyed, 3·37 per cent.			
General average, 6·74 per cent.							

J. K. GRAINGER,
Officiating Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX II.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Casualty Roll of Horse Stallions during the official year 1885-86.

No.	English Name.	Native Name.	Caste.	Description of Casualty.	Date of Casualty.	Nature of Casualty.
1	Ex-Premier	Vazir	N. T. E.	Died ...	17th August 1885	Flatulent colic and rupture of stomach.
2	Do.	Sháhapur ...	Arab.	Do. ..	2nd September ,,	Colic.
3	Silvertail	.....	Do.	Do. ...	10th January 1886	Ruptured stomach.
4	Curtas	.....	Do.	Destroyed ...	21st September 1885	Disease of the hock joints.
5	Mint Master	.....	Do.	Do. ...	2nd August ,,	Dropsy and general debility.
6	Pearl	.....	Do.	Do. ...	24th December 1885	Old and worn out.

J. K. GRAINGER,
Officiating Superintendent, Horse-breeding Operations,
Bombay Presidency.

APPENDIX III.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement of Stallions sold by Public Auction during the official year 1885-86.

Serial Number.	English Name.	Native Name.	Class.	Date of Sale.	Name of Purchaser.	Amount sold for.	Remarks.
						Rs. a. p.	
1	Disraeli ...	...	Arab ...	26th June 1885...	Unknown ...	10 7 3	Impotent.
2	Hermit ...	...	Do. ...	1st Sept. „ ...	Do. ...	35 0 0	Old and worn out.
3	Lottery ...	...	Do. ...	16th Dec. „ ...	Do. ...	72 0 0	Old and unfit for stud work.

J. K. GRAINGER,
Offg. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX IV.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement showing classification and distribution of Horse Stallions attached to the Department of Horse-breeding Operations during the official year 1885-86.

Classes of Stallions.	DECCAN.				GUJARÁT AND KÁTHIÁWÁR.				SIND AND CUTCH.				BELUCHISTÁN.				Grand Total.
	Very good.	Good.	Fair.	Total.	Very good.	Good.	Fair.	Total.	Very good.	Good.	Fair.	Total.	Very good.	Good.	Not seen.	Total.	
Thorough-bred English	4	..	...	4	3	1	...	4	...	...	...	...	2	...	1	3	11
Half-bred English, including Norfolk Trotters	5	...	...	5	1	...	...	1	5	...	..	5	1	...	1	2	13
Australian	...	...	...	...	...	...	...	...	1	...	..	1	...	...	...	...	1
Arabs	12	17	7	36	6	6	2	14	5	4	2	11	...	1	2	3	64
Total ...	21	17	7	45	10	7	2	19	11	4	2	17	3	1	4	8	89

J. K. GRAINGER,
Offg. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX V.

GOVERNMENT OF BOMBAY.

Horse-breeding Operations.

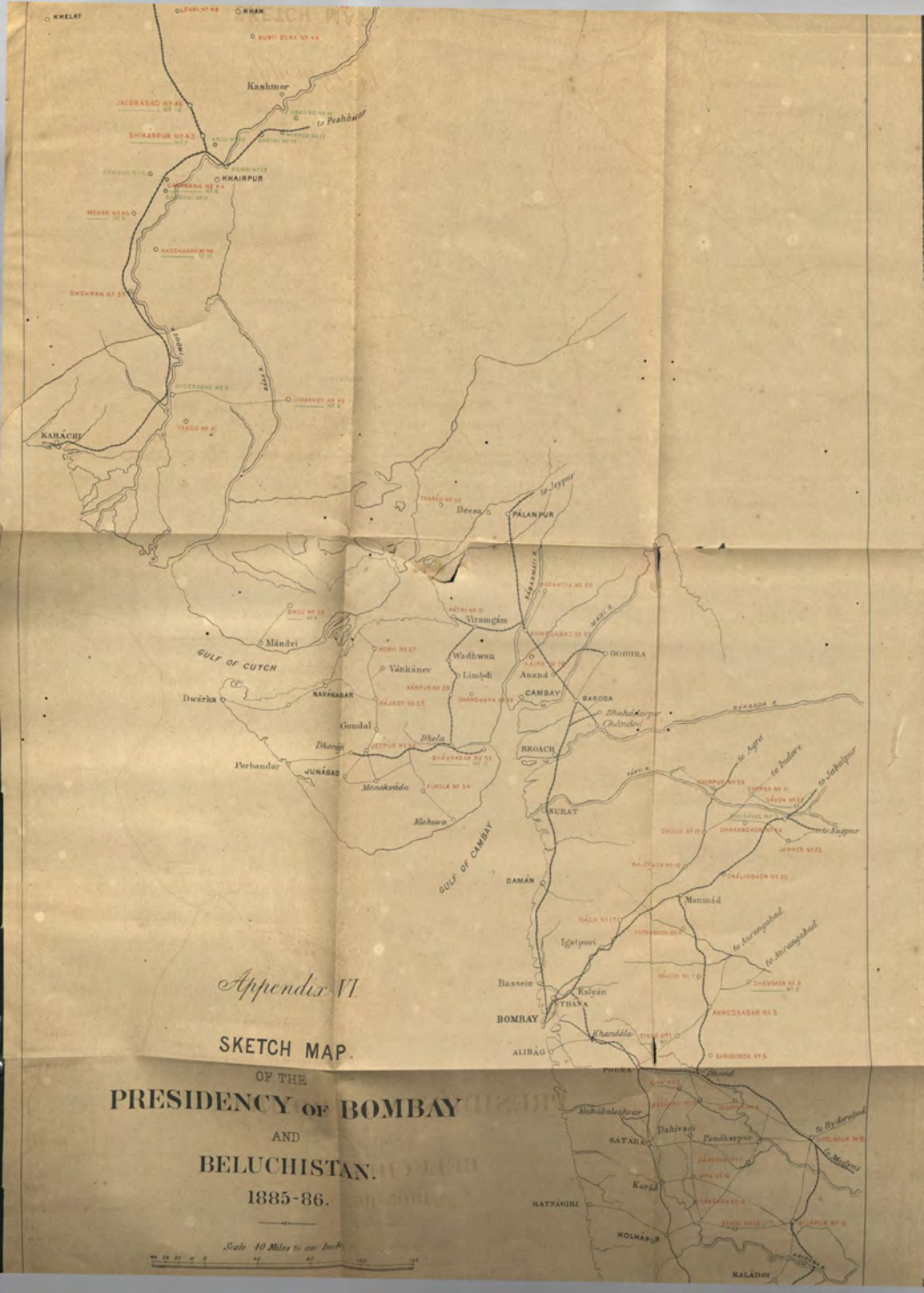
Statement showing cost of Feed, Keep, Attendants, &c., &c., of Horse Stallions during the official year 1885-86.

Provinces.	Districts.	Number of Stallions or days.	Total Annual Cost. Rs. a. p.	Average per Horse Stallion per annum. Rs. a. p.	General average in each Province. Rs. a. p.
Deccan	Sirúr	1,751	1,327 12 10	276 12 6½	328 11 5⅓
	Supa	1,095	927 5 2	309 1 8⅔	
	Bárámati	1,095	1,100 11 0	366 14 4	
	Indápur	770	597 0 10	283 0 3½	
	Ahmednagar	3,887	3,655 1 10	343 3 7¼	
	Sholápur	769	734 14 9	348 13 2	
	Bijápur	365	291 2 1	291 2 1	
	Belgaum	392	570 8 8	531 3 10	
	Dhárwár	996	1,167 7 4	427 13 4⅙	
	Sátára	730	623 0 8	311 8 4	
	Násik	730	514 10 0	257 5 0	
	Khándesh	2,602	2,163 1 8	303 6 11⅙	
	Total ...	15,182	13,672 12 10	.....	.....
Gujarát and Káthiáwár.	Kaira	599	560 9 0	341 9 3	269 9 11⅓
	Ahmedabad	3,253	1,859 1 2	208 9 6½	
	Deesa	548	524 13 10	349 9 5½	
	Tharád	170	131 9 10	282 9 4⅓	
	Káthiáwár	2,034	1,802 3 7	323 6 6⅔	
	Total ...	6,604	4,878 5 5	.....	.....
Sind and Cutch ...	Cutch	1,687	1,430 9 9	309 8 5⅓	332 9 8⅙
	Karáchi	365	328 12 10	328 12 10	
	Thar and Párkar	365	340 12 4	340 12 4	
	Hyderabad	730	666 4 11	333 2 5½	
	Shikárpur	1,215	959 10 8	288 4 8⅔	
	Jacobabad	1,785	1,875 4 6	383 7 4½	
	Total ...	6,147	5,601 7 0	.....	.....
Beluchistán	Beluchistán	796	830 3 4	380 10 11⅔	380 10 11⅔
	Total ...	796	830 3 4	.....	.....

ABSTRACT.

	Rs. a. p.
Deccan	328 11 5⅓
Gujarát and Káthiáwár	269 9 11⅓
Sind and Cutch	332 9 8⅙
Beluchistán	380 10 11⅔
General Average ...	317 6 5

J. K. GRAINGER,
Offg. Supt., Horse-breeding Operations, Bombay Presidency.



Appendix VI.

SKETCH MAP.

OF THE

PRESIDENCY OF BOMBAY

AND

BELUCHISTAN.

1885-86.

Scale 40 Miles to an Inch.

APPENDIX VII.

APPENDIX VII.

Index to the Map of Horse-breeding Operations in the Bombay Presidency during the official year 1885-86.

Number of Stands.	Names of Stallions' Stands.	Names and Class of Horse Stallions.			Number of branded Mares present on the 1st April 1885.		Add.				Total.	Grand Total.	Deduct										Balance remaining on the 1st April 1886.
		Native Name.	English Name.	Class.			Since branded.		Received by transfer.				Died during the year.		Sold during the year.		Transferred to other Districts.		Stolen.		Transferred to Foreign Country and omitted to be brought on Register.		Total.	
					Horse.	Pony.	Horse.	Pony.	Horse.	Pony.			Horse.	Pony.	Horse.	Pony.	Horse.	Pony.	Horse.	Pony.	Horse.	Pony.		
1	Sirúr		"Tam o'Shanter"	T. B. E.	163	7	7	3			10	180	1		1								2	178
	Do.		"Luminary"	N. T. E.																				
	Do.		"Orator"	Arab																				
	Do.		"Punch"	Do.																				
2	Supa		"Comet"	N. T. E.	126	5	12	6			18	149	1										1	148
	Do.		"Ariel"	Arab																				
	Do.	"Chinkara"		Do.																				
3	Bárámati	"Nirghar"		Do.	37			1	1		2	39	2	2	1								5	34
	Do.	"Tannaji"		Do.																				
	Do.	"Kajwa"		Do.																				
4	Indápur	"Sivaji"		Do.	40		3	1	1		5	45	1		1								2	43
	Do.	"Kumayat"		Do.																				
5	Ahmednagar		"Elzevier"	T. B. E.	114	16	10	8			18	148	4										4	144
	Do.		"Sir Robert"	N. T. E.																				
	Do.		"Review"	Do.																				
	Do.		"Royal Visit"	Arab																				
	Do.	"Deshmook"		Do.																				
	Do.	"Sirdár"		Do.																				
	Do.		"Sobersides"	T. B. E.																				
6	Shrígonda		"Lucifer"	N. T. E.	74	2	3	6			9	85	2								1		3	82
	Do.	"Kirkee"		Arab																				
7	Ráhuri		"Allan Bane"	T. B. E.	61	7	4	2			6	74	1										1	73
8	Shevgaon	"Dandy"		Arab			3	3			6	6												6
9	Kopargaon	"Báhádar"		Do.			3				3	3												3
10	Sholápur	"Nuzzur"		Do.	19	1	12	8			20	40												40
11	Sángola		"Grey Dawn"	Do.			98	59			157	157												157
12	Bijápur	"Motirám"		Do.				1			1	1												1
13	Athni		"Rizak"	Do.	1			2			2	3												3
14	Dhárwár	"Hyder"		Do.				105			105	105												105
	Do.	"Tippoo"		Do.																				
	Do.		"February"	Do.																				
	Do.		"March"	Do.																				
	Do.		"Moochel"	Do.																				
	De.		"Spider"	Do.	1				1		1	2												2
15	Tásgaon		"Kingcraft"	Do.			3	1			4	4												4
16	Vita	"Bhosley"		Do.																				
17	Násik	"Sháo Rája"		Do.																				
18	Málegaon		"Lieutenant"	Do.	9	20						29												29
19	Dhulia																							

20	Chálisgaon	...	...	.....	"Tom Bay"	...	Do.	...	9	2	...	...	...	...	...	11	...	...	...	...	...	...	...	...	...	...	...	11
	Do.	...	...	.....	"Pinto"	...	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	Chopda ...	...	...	.....	"Red Deer"	...	Do.	...	3	1	...	...	...	...	...	4	...	...	...	...	...	...	...	...	...	...	...	4
22	Sávda ...	...	...	"Náná"	.....		Do.	...	3	6	...	...	...	...	...	9	...	...	...	...	...	...	...	...	...	...	...	9
23	Jámner ...	...	...	"Kaldár"	.....		Do.	...	30	19	...	...	...	...	...	49	...	...	...	...	...	...	...	...	...	...	...	49
24	Dharangaon	...	...	.....	"Bowleg"	...	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	Shirpur ...	...	...	"Abdulla"	.....		Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	Kaira ...	...	...	.....	"Melton"	...	Do.	...	86	110	16	26	...	...	42	238	2	1	...	...	...	...	...	...	...	...	3	235
27	Ahmedabad	...	...	.....	"Cottenham"	...	T. B. E.	...	254	108	11	46	...	...	57	419	...	1	1	...	...	...	...	...	...	...	2	417
	Do.	...	...	.....	"Inspector"	...	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Do.	...	...	.....	"Pickle"	...	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Do.	...	...	.....	"Merrylegs"	...	Arab	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	Parántij	...	...	"Táhlim"	.....		Do.	...	29	17	18	28	...	...	46	92	...	...	...	...	...	...	...	...	...	...	...	92
	Do.	...	...	"Angrya"	.....		Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29	Dhandhuka	...	...	"Sindia"	.....		Do.	...	...	...	2	4	...	...	6	6	...	...	...	...	...	...	...	...	...	...	...	6
	Do.	...	...	.....	"January"	...	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
30	Ránpur	...	...	.....	"Hampton"	...	T. B. E.	...	...	...	..	...	..		...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Do.	...	...	.....	"Midnight"	..	Arab	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31	Pátri ...	...	...	.....	"Rufus"	...	Do.	...	...	...	28	91	...	...	119	119	...	...	...	...	...	...	...	...	...	...	...	119
	Do. ...	...	...	"Ferishta"	.....		Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
32	Tharád ...	...	...	"Kohinoor"	.....		Do.	...	346	...	10	17	...	...	...	27	373	...	...	...	...	...	...	...	...	...	...	373
33	Rajkot ...	...	...	.....	"Marmion"	...	Do.	...	31	...	...	...	...	...	...	31	...	...	...	...	...	...	...	...	...	...	...	31
34	Kundla ...	...	..	.....	"Kháldar"	...	Do.	...	59	...	...	...	...	...	...	59	...	...	...	...	...	...	...	...	...	...	...	59
35	Bhávnagar	...	...	.....	"Lachin"	..	Do.	..	88	...	..	..	1	...	1	89	3	...	...	...	...	...	...	...	...	..	3	86
36	Jetpur ...	...	...	.....	"Grumbler"	...	Do.	...	8	...	5	1	...	...	6	14	...	...	...	...	...	...	...	...	...	...	...	14
37	Morvi ...	...	...	... ..	"Sepoy"	..	N. T. E.	...	172	...	3	4	...	..	7	179	7	...	...	...	...	...	...	...	2	...	9	170
38	Bhuj ...	...	...	"Bahirwatia" ...	.. ...		Arab	...	281	...	168	..	..	..	168	449	..	...	...	...	...	...	...	...	...	...	...	449
	Do. ...	...	...	"Torna"	.....		Do.	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Do. ...	...	..	.....	"Lord Napier"	...	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Do. ...	...	..	"Gaikwár" ...	"Melburne"	...	N. T. E.	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Do. ...	...	..	.....	"Despatch"	...	Do.	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
39	Shewan ...	...	...	.....	"Sir James"	...	Arab	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
40	Nausháhro	...	...	"Dwárka"	... ..		Do.	...	58	...	...	...	...	...	...	58	...	...	...	...	...	...	...	...	...	...	...	58
41	Tando ...	...	...	.....	"Moonstone"	...	Do.	...	...	...	..	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
42	Umarkot	...	...	"Khatav"	.....		Do.	...	26	1	...	...	...	...	...	27	...	...	...	...	...	...	...	...	...	...	..	27
43	Shikárpur	...	...	"Khabstar"	.....		Do.	...	81	...	27	..	...	...	27	108	...	...	...	...	...	...	...	...	...	...	...	108
44	Lárkhána	...	...	.....	"Planet"	...	T. B. E.	...	142	3	59	...	..	...	59	204	...	...	...	...	...	...	...	...	...	..	...	204
45	Mehar ...	...	...	"Rangoon"	.....		Arab	...	...	...	61	...	...	...	61	61	...	...	...	...	...	...	...	...	...	...	...	61
46	Jacobabad	...	...	.....	"Bluelight"	...	Australian	...	252	11	60	...	...	...	60	323	...	...	...	...	...	...	...	...	...	...	...	323
	Do.	...	...	.....	"Cupid"	...	N. T. E.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Do.	...	...	.....	"Contract"	...	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Do.	...	...	.....	"Nicholas"	...	Arab	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Do.	...	...	.....	"Sir Frank"	...	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
47	Sibi ...	...	...	.....	"Appollo"	...	T. B. E.	...	44	..	58	...	...	...	58	102	...	...	...	...	...	...	...	...	...	...	...	102
	Do. ...	...	...	.....	"Bruno"	...	N. T. E.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Do. ...	...	...	... ..	"Cyprus"	...	Arab	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
48	Bugti Dera	...	...	"Shábr"	.....		Do.	...	...	...	..	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
49	Lehri ...	...	...	.....	"Kohilan"	...	Do.	...	35	...	2	...	...	..	2	37	...	...	...	...	...	...	...	...	...	...	...	37
	Do. ...	...	...	.....	"Trustee"	..	N. T. E.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Do. ...	...	...	.....	"Songster"	...	T. B. E.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
50	Barkhan	...	...	.....	"Forgery"	...	Do.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

J. K. GRAINGER,

Offg. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX VIII.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

Index to the Map of Mule-breeding Operations during the official year 1885-86.

Number of Stands.	Names of Stands.	Names and Classes of Donkey Stallions.			Number of branded Mares present on the 1st April 1885.	Add.			Grand Total.	Deduct.					Balance remaining on the 1st April 1886.	Remarks.
		Native Name.	English Name.	Classes.		Since branded.	Received by transfer from other Districts.	Total.		Died during the year.	Sold during the year.	Transferred to other Districts.	Stolen.	Total.		
1	Sirúr	Patwarri	.....	Italian ...	50	...	...	...	50	...	...	...	...	...	50	
2	Sheogaon ...	Khandoba... ...	.....	Italian ...	64	...	...	...	64	...	...	...	...	...	64	
3	Bhusával ...	Neddy	.....	Arab ...	15	...	...	...	15	1	...	...	...	1	14	
4	Bháj	Kamarputta ...	.....	Italian ...	45	...	...	...	45	...	...	...	...	...	45	
5	Hyderabad ...	Kandáhári... ...	.....	Bokhára...	...	...	...	...	....	...	...	...	...	...	...	
	.....	Pindi	.....	Italian ...	...	...	...	...	...	...	...	...	...	...	...	
6	Umarkot ...	.....	Boanerges ...	Arab ...	...	....	...	...	...	...	...	...	...	...	...	
7	Shikárpur ...	Kargoozar ...	.....	Persian ...	11	...	...	...	11	...	...	...	...	...	11	
	.....	Changi	.....	Khorásán.	...	...	...	...	...	...	...	...	...	...	...	
8	Lárkhána ...	.....	John	Persian ...	52	...	...	...	52	...	...	...	...	...	52	
	.....	Shikárdár	.....	Italian ...	...	....	...	...	...	...	...	...	...	...	...	
9	Mehar	Banerjee	.....	Persian ...	...	162	...	162	162	...	...	...	...	...	162	
	.....	Muley	.....	Spanish...	...	...	...	...	...	...	...	...	...	...	...	
10	Nausháro ...	Moti	.....	Arab ...	...	...	...	...	...	...	...	...	...	...	...	
11	Bákráni... ...	Kulloo	.....	Persian ...	...	...	...	...	...	...	...	...	...	...	...	
12	Abdu	Jeeramjee... ...	.....	Persian ...	...	...	...	...	...	...	...	...	...	...	...	
13	Rohri	Shah Ferid ...	.....	Persian ...	...	...	...	...	...	...	...	...	...	...	...	
14	Ubaurao ...	Musjid	.....	Persian ...	...	...	...	...	...	...	...	...	...	...	...	
15	Ghotki	Punna	.....	Italian ...	...	...	...	...	...	...	...	...	...	...	...	
16	Kambar... ...	Sewana	.....	Italian ...	...	...	...	...	...	...	...	...	...	...	...	
17	Mirpur	Gohana	.....	Italian ...	...	...	...	...	...	...	...	...	...	...	...	
18	Jacobabad ...	.....	Jack	Persian ...	...	3	...	3	3	...	...	...	...	...	3	
	.....	.....	Socrates... ...	Persian ...	...	...	...	...	...	...	...	...	...	...	...	
19	Bhavnagar ...	.....	Balaam	Arab ...	33	...	...	33	...	...	...	...	...	...	33	

J. K. GRAINGER,

Offg. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX IX.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Annual Return of Stock in the Bombay Presidency during the official year ending 31st March 1886.

Details.		GOVERNMENT HORSE STALLIONS.					GOVERNMENT DONKEY STALLIONS.							BRANDED MARES THE PROPERTY OF BREEDERS.			REMARKS.
		Thorough-bred English.	Half-bred, English Norfolk including Trotters.	Australian.	Arabs.	Total.	Spanish.	Bokhára.	Khorásán.	Italian.	Persian.	Arab.	Total.	For Horse-breeding.	For Pony-breeding	For Mule-breeding.	
Increase.	Balance on the 1st April 1885	8	11	1	55	75	1	1	..	5	3	3	13	2,682	336	270	
	Received from England	2	2	..	..	4	..	..	..	..	..	..	..	..	..	..	
	Purchased in India	..	..	..	15	15	..	..	..	..	..	..	..	..	..	..	
	Received by transfer from the North-Western Provinces and Punjáb ..	1	1	..	2	4	..	..	1	3	6	..	10	..	..	..	
	Branded during the year	..	..	..	..	..	..	..	..	..	..	..	..	686	423	165	
	Total Increase ..	11	14	1	72	98	1	1	1	8	9	3	23	3,368	759	435	
Decrease.	Died	..	1	..	2	3	..	..	..	..	..	..	..	24	4	1	
	Destroyed	..	..	..	3	3	..	..	..	..	..	..	..	..	..	..	
	Sold	..	..	..	3	3	..	..	..	..	..	..	..	3	..	..	
	Total Decrease ..	..	1	..	8	9	..	..	..	..	..	..	..	27	4	1	
	Balance on the 31st March 1886 ..	11	13	1	64	89	1	1	1	8	9	3	23	3,341	755	434	
	Total of each Class ..	89					23							3,341	755	434	

J. K. GRAINGER,

Offg. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX X.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement showing total number of Mares inspected, approved, and branded ⅄ on the near Shoulder and the same on the near Hind Quarter, and D, the number of Mares whose owners declined the Brand for Horse, Pony, or Mule-breeding since the system of branding was commenced up to 31st March 1886.

Provinces.	Total number of Mares inspected.	TOTAL NUMBER OF MARES APPROVED AND BRANDED.				Number of Mares rejected or refused the Brand.	REMARKS.
		For Horse-breeding.		For Mule-breeding.	Total.		
		Horse.	Pony.				
Deccan	2,530	890	294	140	1,324	1,206	
Gujarát and Káthiáwár ...	3,353	1,169	451	33	1,653	1,700	
Sind and Cutch	2,448	1,215	15	273	1,503	945	
Beluchistán	263	139	...	...	139	124	
Total ...	8,594	3,413	760	446	4,619	3,975	

J. K. GRAINGER,

Offg. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX XI.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

General Statement showing the results of the year's operations during the official year 1885-86.

Province.	Number of branded Mares the property of Breeders remaining on the Register on the 31st March 1886.	Number of branded and unbranded mares the property of Breeders covered by Government Stallions.		Number of Government Horse Stallions employed at Stud work.		Average number of branded and unbranded Mares covered in 1885-86 per Stallion employed during the year.	Number of Stock, the property of Breeders, got by Government Stallions foaled during 1885-86 the results of coverings of 1884-85.										Number of Mares covered in 1884-85 the results of which are known.	Number of Government Stallions employed in 1884-85, the results of which with regard to coverings are known.	Percentage of produce foaled during 1885-86 to mares covered in 1884-85.	Average number of produce foaled during 1885-86 per Stallion employed at Stud work in 1884-85.	Remarks.
							Colts.					Fillies.									
		During 1884-85.	During 1885-86.	During 1884-85.	During 1885-86.		By thorough-bred English.	Half-bred English, Norfolk including Trotters.	Australians.	Arabs.	Total.	By thorough-bred English.	Half-bred English Norfolk including Trotters.	Australians.	Arabs.	Total.	Grand Total.				
Deccan and Khándesh...	1,125	902	1,234	35·90	37·59	32·82	8	25	...	131	164	6	15	...	146	167	331	830	30·59	39·87	10·82	
Gujarát and Káthiáwár.	1,602	271	368	11·36	16·09	22·87	10	2	...	20	32	13	2	...	23	38	70	231	8·05	30·30	8·69	
Sind and Cutch ...	1,230	596	671	12·78	15·86	42·30	...	7	2	30	39	...	5	5	18	28	67	313	7·54	21·40	8·88	
Beluchistán	139	115	*34	3·00	2·18	15·59	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	*Supplementary returns not received.
Total ...	4,096	1,884	2,307	63·04	71·72	32·16	18	34	2	181	235	19	22	5	187	233	468	1,374	46·18	34·06	10·13	

J. K. GRAINGER,

Offig. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX XII.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement showing the number of Mares cast from Corps and Batteries and sold to bonâ fide Breeders for breeding purposes during 1885-86.

Number.	Brand Number.	Colour.	From whence Cast.		Date of Sale.	Sold for Horse or Mule breeding.	Name of Purchaser.	Price.	Remarks.
			Corps and Batteries.	Stations.				Rs. a. p.	
1	5	Dark Bay	D/2 R. A.... ...	Ahmedabad ...	5th March 1886 ...	Horse	Reverend R. Gillispie ...	40 0 0	
2	55	Black	Do.	Do. ...	8th March 1886 ...	Do.	Mr. Oopkar Agoobhai ...	25 0 0	
3	2	Black	C/2 R.A.	Hyderabad ...	24th October 1885	Do.	,, Khair Mehomed ...	12 0 0	
4	7	Black	Do.	Do. ...	Do. ...	Do.	,, Dowlatsing	43 0 0	
5	73	Brown	Do.	Do. ...	Do. ...	Do.	,, Mehomed Ally ...	8 8 0	
6	98	Bay	Do.	Do. ...	Do. ...	Do.	,, Oosman	70 0 0	

Provinces.	Number of Mares.	Amount.	Average.
		Rs. a. p.	Rs. a. p.
Gujarát...	2	65 0 0	32 8 0
Sind	4	133 8 0	33 6 0
Total ...	6	198 8 0	33 1 4

J. K. GRAINGER,
Offg. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX XIII.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement of Remounts purchased during the official year 1885-86.

	Number of Remounts purchased.				Details.			Remarks.
	Horses.	Mares.	Geldings.	Total.	Produce of Government Stallions.	Class of Sires not known.	Country-bred.	
Army Remount Department... { From 4 to 8 years of age ..	11	...	...	11	...	11	...	
Army Remount Department... { ,, 1 to 4 years of age ...	...	...	...	...	...	...	...	
Bombay Native Cavalry	698	359	23	1,080	101	409	570	
Police Northern Division	54	4	...	58	8	16	34	
,, Central ,, ...	11	3	...	14	1	13	...	
,, Southern ,, ...	5	1	...	6	...	2	4	
,, in Sind ,, ...	85	4	8	97	2	1	94	
Total ...	864	371	31	1,266	112	452	702	

J. K. GRAINGER,
Offg. Supt. Horse-breeding Operations, Bombay Presidency.

APPENDIX XIV.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

Statement showing the number of Colts, the property of Zamíndárs, castrated by District Salutris and Castrators in the Bombay Presidency Horse-breeding Districts during 1885-86.

Province.	District.	Number of Colts castrated.	Number of deaths resulting from effects of operations.	Remarks.
Deccan	Poona	19	.....	
	Ahmednagar	6	.....	
	Khándesh	27	.....	
Gujarát	Ahmedabad	63	.....	
Sind	Shikárpur	7	.....	
	Total ...	122	.....	

J. K. GRAINGER,
Offg. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX XV.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

Statement showing Classification and Distribution of Donkey Stallions attached to the Department of Horse-breeding Operations during the official year 1885-86.

Class.	DECCAN.					SIND AND CUTCH.						Grand Total.	REMARKS.
	Very Good.	Good.	Fair.	Bad.	Total.	Very Good.	Good.	Fair.	Bad.	Not seen.	Total.		
Spanish	...	...	...	...	...	...	1	...	...	...	1	1	
Arab	...	...	1	...	1	...	1	1	...	...	2	3	
Bokhára	...	...	...	...	...	1	...	...	...	...	1	1	
Persian	...	...	...	...	...	1	2	...	...	6	9	9	
Italian	1	...	1	...	2	3	...	...	...	3	6	8	
Khorásán	...	...	...	...	...	...	1	...	...	...	1	1	
Total	1	...	2	...	3	5	5	1	...	9	20	23	

J. K. GRAINGER,
Offg. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX XVI.

GOVERNMENT OF BOMBAY.

MULE-BREEDING OPERATIONS.

Statement showing Cost of Feed, Keep, &c., &c., of Donkey Stallions during the official year 1885-86.

Provinces.	Districts.	Number of Stallions or days.	Total annual Cost.	Average per Donkey Stallion per annum.	General average in each Province.
			Rs. a. p.	Rs. a. p.	
Deccan	Sirúr	365	211 13 9	211 13 9	255 1 9
	Ahmednagar	365	267 13 7	267 13 7	
	Khándesh	630	470 13 5	272 12 7	
	Total ...	1,360	950 8 9	.....	
Sind and Cutch ...	Bhúj	365	168 2 3	168 2 3	183 7 4½
	Umarkot	365	101 13 0	101 13 0	
	Hyderabad	730	455 3 7	227 9 9½	
	Shikárpur	1,657	762 5 10	167 14 10 15/16	
	Jacobabad	517	339 0 5	239 5 7½	
	Total ...	3,634	1,826 9 1	.....	

ABSTRACT.

Deccan	255 1 9
Sind and Cutch	183 7 4½
General Average ...	202 15 6 5/6

J. K. GRAINGER,
Offg. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX XVII.

GOVERNMENT OF BOMBAY.

Mule-breeding Operations.

General Statement showing results of the year's operations during the official year 1885-86.

Provinces.	Mares covered. For Mule-breeding. During 1884-85.	Mares covered. For Mule-breeding. During 1885-86.	Mares covered. Donkey Mares for Donkey-breeding. During 1884-85.	Mares covered. Donkey Mares for Donkey-breeding. During 1885-86.	Number of Government Donkey Stallions employed in the Stud-work. During 1884-85.	Number of Government Donkey Stallions employed in the Stud-work. During 1885-86.	Average number of Mares covered during 1885-86 per Stallion employed in the year.	Mules by Government Stallions foaled during the year. Colt Mules. Arab.	Colt Mules. Bokhára.	Colt Mules. Italian.	Colt Mules. Persian.	Colt Mules. Total.	Filly Mules. Arab.	Filly Mules. Bokhára.	Filly Mules. Italian.	Filly Mules. Persian.	Filly Mules. Total.	Grand Total.	Number of Mares covered in 1884-85 the results of which are known.	Number of Government Donkey Stallions employed in 1884-85, results of which as regards coverings are known.	Percentage of produce foaled during 1885-86 to Mares covered in 1884-85.	Average number of Produce foaled during 1885-86 per Stallion employed in 1884-85.	Remarks.
Deccan and Khándesh.	80	44	..	..	5·41	3·00	14·66	3	..	8	..	11	4	..	5	..	9	20	80	5·41	25·00	3·69	
Gujarát and Káthiáwár	..	16	..	..	·60	1·00	16·00	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Returns not received.
Sind and Cutch ..	214	278	..	29	4·16	8·88	34·57	1	1	..	3	5	..	1	..	4	5	10	85	2·08	11·76	4·80	
Beluchistán	..	..	..	..	..	..	.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	
Total ..	294	338	..	29	12·17	12·88	28·49	4	1	8	3	16	4	1	5	4	14	30	165	7·49	18·18	4·005	

J. K. GRAINGER,
Offg. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX XVIII.

GOVERNMENT OF BOMBAY.

Horse-breeding Operations.

General Statement showing Horse Shows held during the year 1885-86.

No.	Station.	Date.	Number exhibited.	Prizes. Number.	Prizes. Value.	Other Expenses incurred.	Total Expenses.	Portion thereof paid by Government.	Remarks.
					Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
1	Poona	7th, and 8th October 1885 ..	272	81	3,965 0 0	983 2 0	4,948 2 0	3,500 0 0	
2	Ahmednagar	17th and 18th November 1885.	252	79	1,006 0 0	2,557 0 0	3,563 0 0	600 0 0	
3	Rájkot	22nd October 1885	309	38	583 0 0	526 9 10	1,109 9 10	583 0 0	
4	Rudra Máta	21st January 1886	154	36	605 8 8	215 12 5	821 5 1	....	
5	Shikárpur	2nd and 3rd February 1886 ..	847	205	4,043 0 0	1,919 8 8	5,962 8 8	....	
6	Sibi	15th February 1886	594	83	1,785 0 0	215 0 0	2,000 0 0	....	
7	Ahmedabad	8th March 1886	831	114	2,830 0 0	2,481 0 2	5,311 0 2	1,700 0 0	
		Total ..	3,259	636	14,817 8 8	8,898 1 1	23,715 9 9	6,383 0 0	

J. K. GRAINGER,
Offg. Supt., Horse-breeding Operations, Bombay Presidency.

APPENDIX XIX.

GOVERNMENT OF BOMBAY.

HORSE-BREEDING OPERATIONS.

General Statement of Expenditure during the official year 1885-86.

Number.	Heads of Expenditure.	Pay.	Travelling Allowances.	Service Stamps.	Telegrams.	Office Rent.	Petty Supplies.	Carriage of Office Records and Tents.	Carriage of Superintendents' Horses.	Cost of Keep.				Total.	Grand Total.	Remarks.
										Debited to Local Funds.	Debited to Provincial.	Paid by Beluchistán Agency.	Paid by Pálanpur State.			
		Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	Rs. a. p.	
1	Officiating Superintendent ..	2,400 0 0	1,836 13 4	....	....	....	....	....	....	....	....	....	....	4,236 13 4		
2	Office Establishment	1,733 0 0	790 3 9	....	....	....	....	....	....	....	....	....	....	2,523 3 9		
3	Inspectors	1,714 13 5	531 3 6	....	....	....	....	....	....	....	....	....	....	2,246 0 11	11,263 4 0	
4	Castrators	1,320 0 0	240 13 0	....	....	....	....	....	....	....	....	....	....	1,560 13 0		
5	Office Expenses	....	....	100 0 0	43 12 0	180 0 0	14 5 0	290 14 0	67 6 0	....	....	....	....	696 5 0		
6	Stallions' keep, &c.	....	....	....	....	....	....	....	....	8,974 5 0	15,046 10 5	830 3 4	131 9 10	24,982 12 7		
7	Do. Purchase	....	....	....	....	....	....	....	....	....	....	....	....	8,750 0 0	42,892 14 5	
8	Donkeys' keep, &c.	....	....	....	....	....	....	....	....	1,304 8 9	1,472 14 1	....	....	2,777 1 10		
9	Horse Shows	....	....	....	....	....	....	....	....	....	....	....	....	6,383 0 0		
	Total ..	7,167 13 5	3,399 1 7	100 0 0	43 12 0	180 0 0	14 5 0	290 14 0	67 6 0	10,278 8 9	16,519 8 6	830 3 4	131 9 10	54,156 2 5	54,156 2 5	

J. K. GRAINGER,
Offg. Supt., Horse-breeding Operations, Bombay Presidency.

BOMBAY : PRINTED AT THE GOVERNMENT CENTRAL PRESS.

Horse-Breeding Operations: Annual Administration Report of the Department of —— for the official year 1885-86.

No. 5833.

REVENUE DEPARTMENT.

Bombay Castle, 13th August 1886.

Letter from the Officiating Superintendent of Horse-Breeding Operations, No. 613, dated 19th June 1886—Submitting the Annual Administration Report of the Department of Horse-Breeding Operations in Bombay for the official year 1885-86.

RESOLUTION.—The number of Government horse stallions on the roll was increased from 75 to 89 during the year under review, but as only 2,307 mares were covered, it does not appear that their services were fully utilized. Only 4,619 mares, however, have been branded and registered since the Department was first started, so that a better result could hardly be expected. The number of donkey stallions was also increased to 23. All these except 3 are located in Sind or Kutch, where people are said to take special interest in mule-breeding.

2. 1,109 mares were branded during the year, but this operation was as usual performed in only a small portion of the Presidency. Many districts in which few mares have as yet been branded were not visited by Mr. Grainger. In view of the orders passed on the last Administration Report it is not clear why that officer did not spend more of his time in the Deccan. But Government are aware that the work of the whole Presidency is too heavy for a single Superintendent to perform satisfactorily, and it is now under consideration whether authority to brand good mares should not be conferred upon such local officers as are known to be peculiarly fitted for the task of selection.

3. Horse-breeding is reported to be most successful in Sind, Kutch, and Biluchistán. In Gujarát and Káthiáwár progress is said to be steady, while the Deccan and Southern Marátha Country districts visited appear to be far more suited for pony and mule breeding. The attention of the Collectors of Sholápur and Dhárwár should be drawn to the remarks of the Superintendent in paragraphs 18 and 25 of his report.

4. The number of foals (468) which are reported to have resulted from the coverings of the previous year is small and compares unfavourably with the expenditure on horse-breeding during that year. But it is not pretended that accurate information has been obtained. Collectors should again be requested to take more pains to obtain accurate information on this point for the Superintendent in future.

5. The expenditure of the Department during the year under review, so far as it has been ascertained, was Rs. 54,156-2-5. This is slightly less than the expenditure during the previous year, but the decrease is apparent only, and is due to the fact that complete returns have not been received from Biluchistán.

J. DE C. ATKINS,
Acting Under Secretary to Government.

To

The Commissioner in Sind,
The Commissioner, N. D.,
The Commissioner, C. D.,
The Commissioner, S. D.,
All Collectors, including the Collectors and Deputy Commissioners in Sind,
The Superintendent of Horse-Breeding Operations,
The Accountant General,
The Military Department of the Secretariat,
The Political Department of the Secretariat,
The Director of Agriculture.
} With copies of the report.

The Secretary of State for India,
The Government of India.
} By letter.

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